

*See*

# ENTERED



1600

**RAW SEQUENCE LISTING**

DATE: 03/14/2003

PATENT APPLICATION: US/09/612,894

TIME: 08:05:20

Input Set : N:\Crf3\RULE60\09612894.RAW.txt

Output Set: N:\CRF4\03142003\I612894.raw

**SEQUENCE LISTING****(1) GENERAL INFORMATION:**

(i) APPLICANT: Stocco, Douglas M.

Clark, Dr. Barbara J.

(ii) TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REGULATION  
OF STEROIDOGENESIS

(iii) NUMBER OF SEQUENCES: 19

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Akur, Gump, Strauss, Bauer &amp; Feld, L.L.P.

(B) STREET: 1901 Frost Bank Plaza, 916 Congress Avenue

(C) CITY: Austin

(D) STATE: TX

(E) COUNTRY: U.S.A.

(F) ZIP: 78701

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US/09/612,894

(B) FILING DATE: 27-Feb-2001

(C) CLASSIFICATION: 530

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US/08/659,254

(B) FILING DATE: 07-JUN-1996

(A) APPLICATION NUMBER: US 08/538,960

(B) FILING DATE: 04-OCT-1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Mayfield, Denise L.

(B) REGISTRATION NUMBER: 33,732

(C) REFERENCE/LOCKET NUMBER: 43801, 10006

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: 512/499-6200

(B) TELEFAX: 512/499-6298

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 146 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: 7000 "RNA"

C--&gt; 28

C--&gt; 29

W--&gt; 35

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```

63      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
64      GTGACCCAC GGGCCCGCTC AGGAGCTTGA AAGGCTCAGG AAGAACAAAC CTTGAGCACC      60
65      TCAGCACTCA GCATGTTCCT CGCTAGCTTC AAGCTGTGTG CTGGAAGCTC CTATAGACAT      120
66      ATGCGGAATA TGAAGGATT AAGGCAACAA GGTGTCTGTG CCATTGGGCA AGAGCTCAAC      180
67      TGGAGAGCAC TGGGGGATTC CAGTCCCGGG TGGATGGGTG AAGTTCGAGG TGGAGCTCTT      240
68      CTGCTTGGGT CTCAGCTTGA AGCAACATTC TATCTTACCC AGGAGCTGTC CTACATCCAC      300
69      CAGGGAGAGG TGGTATPCCA GAAGGCTTTC GGCATATPCA ACAACCAAGG AAGCTCGAAG      360
70      AAGAAAGGTC AGCAAGAAA CAGGCAATGAA GTGCTAGGTA AATATCTTTC AATATCTTTC      420
71      AAGGTGTTTT GGTGGAATCT GTTCTTACAC CAGGCGATTC ACAGACTCTA TGAAGAACTT      480
72      GTGGACCGGA TGGAGGATAT TGGAGATGCG AAGCCAAATG TCAAGGAGAT CAAGGTCCTG      540
73      CAGAGGATTG GAAAGAGATC GGTTCATGACT CATGAGTGTG CTGCGCGCGG AGCAGGCAAC      600
74      CTGCTGGGGC CTCAGGATTT CTGAGGCTTC CCGCTTACCA AGGCGAGAGG TTCCACTCTT      660
75      GTGCTGGGAG GCATGCTTAC AATTTTGGG GAGATCGCGG AGCAGAGTGG TGTCAATCAG      720
76      CTGTAACAGG GCGCGGCTTC CATGTTGCTT CATCCACTGG CTGGAAGTCC CTCCAAGACT      780
77      AAAGTCACCT GCTGCTCAG TATTCAGCTG AAGGCTTGGC TGGCGAAGAG AATCAATCAAC      840
78      CAGGTCTTAT CCAAGCTCA CATAGAGTTC GCGCAATGAG TGGCGAAGCG CCGGGAAGCC      900
79      AGGCTCTGCT CTCAGGCTCA GGTTCATGGA CTGCTTACCA CATTCAGCTG CAAATCAATTG      960
80      GAAGCTCTCA CAGGAGGCT TAAATCTGT CCATCTTTCAG CTAACAGCAT CCGGAGGGGT      1020
81      GGTAGTCA AGAGCTCAGG AATGACTGTT AAAATAGGA TAGCAAAAT AGAAATGAGG      1080
82      CTAGAAATAA AATTTTCTA TTCTCTTCA CTGATAGCT TGAAGGCTA AGGATAAGT      1140
83      AGCTADGAAA CTTTCTTCT AGGCTTCTAT ATGCTGACT AAAAGACATC AGGAGTACG      1200
84      AACAGGGGAT GCTAAATATC GCGAATCTTT GTCTTACCAG CTCCAAATGT CACTACCTGA      1260
85      AGGCACTGTG CAGTCAAGGC AAGGTCTTTC CTAGGAAACT CTGTAAAGT TCTCTCTGT      1320
86      AAAAGGCGAG AACTTCAATG AAGTACCTA CAAAGGGGCT TTCCAGAGTA TTCCAACCTT      1380
87      TCTCTGAGGA GAAATGAAAC CATCATTTGT CCGACTTCCC TACTAATCCC ATGACAATAA      1440
88      AGAACATACA TAAAAAAAAA AAAAAA      1466
115 (2) INFORMATION FOR SEQ ID NO: 2:
116 (i) SEQUENCE CHARACTERISTICS:
117 (A) LENGTH: 76 amino acids
118 (B) TYPE: amino acid
119 (C) STRANDEDNESS: single
120 (D) TOPOLOGY: linear
121 (ii) MOLECULE TYPE: protein
122 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
123 Met Phe Leu Ala Thr Phe Lys Leu Lys Ala Gly Ser Ser Tyr Arg His
124 1 5 10 15
125 Met Arg Asn Met Lys Gly Leu Arg His Gln Ala Val Leu Ala Ile Gly
126 20 25 30
127 Gln Glu Leu Asn Trp Arg Ala Leu Gly Asp Ser Ser Pro Gly Trp Met
128 35 40 45
129 Gly Gln Val Arg Arg Arg Ser Ser Leu Leu Gly Ser Gln Leu Glu Ala
130 50 55 60
131 Thr Leu Tyr Ser Asp Gln Gln Leu Ser Tyr Ile Gln Gln Gly Gln Val
132 65 70 75 80
133 Ala Met Gln Lys Ala Leu Gly Ile Leu Asn Asn Gln Glu Gly Trp Lys
134 85 90 95
135 Lys Gln Ser Gln Ser Phe Asn Gly Asp Gln Val Ser Ser Lys Met Val
136 100 105 110
137 Pro Asp Val Gly Lys Val Phe Arg Leu Glu Val Val Val Asp Gln Pro

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151          115          120          135
154 Met Asp Arg Leu Tyr Glu Glu Leu Val Asp Arg Met Glu Ala Met Gly
155          135          135          140
157 Glu Trp Asn Pro Asn Val Lys Glu Ile Lys Val Leu Gln Arg Ile Gly
158          145          150          155          160
160 Lys Asp Thr Val Ile Thr His Glu Leu Ala Ala Ala Ala Gly Asn
161          155          170          175
163 Leu Val Gly Pro Arg Asp Phe Val Ser Val Arg Cys Thr Lys Arg Arg
164          175          185          190
166 Gly Ser Thr Cys Val Leu Ala Gly Met Ala Thr His Phe Gly Glu Met
167          195          200          205
169 Pro Glu Gln Ser Gly Val Ile Arg Ala Glu His Gly Pro Thr Cys Met
170          210          215          220
172 Val Leu His Pro Leu Ala Gly Ser Pro Ser Lys Thr Lys Leu Thr Trp
173          225          230          235          240
175 Leu Leu Ser Ile Asp Leu Lys Gly Trp Leu Pro Lys Thr Ile Ile Asn
176          245          250          255
178 Glu Val Leu Ser Gln Thr Gln Ile Glu Phe Ala Asn His Leu Arg Lys
179          260          265          270
181 Arg Leu Glu Ala
182          275

```

## 184 (2) INFORMATION FOR SEQ ID NO: 1:

## 185 (i) SEQUENCE CHARACTERISTICS:

186 (A) LENGTH: 14 amino acids

188 (B) TYPE: amino acid

189 (C) STRANDEDNESS: single

190 (D) TOPOLOGY: linear

192 (ii) MOLECULE TYPE: peptide

## 193 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

194 Ala Glu His Gly Pro Thr Cys Met Val Leu His Pro Leu Ala

200 1 5 10

## 201 (2) INFORMATION FOR SEQ ID NO: 4:

## 202 (i) SEQUENCE CHARACTERISTICS:

203 (A) LENGTH: 12 amino acids

204 (B) TYPE: amino acid

206 (C) STRANDEDNESS: single

208 (D) TOPOLOGY: linear

210 (ii) MOLECULE TYPE: peptide

## 211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

212 Ala Leu Gly Ile Leu Asn Asn Gln Glu Gly Trp Lys

218 1 5 10

## 219 (2) INFORMATION FOR SEQ ID NO: 5:

## 220 (i) SEQUENCE CHARACTERISTICS:

221 (A) LENGTH: 9 amino acids

222 (B) TYPE: amino acid

223 (C) STRANDEDNESS: single

224 (D) TOPOLOGY: linear

226 (ii) MOLECULE TYPE: peptide

## 227 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

## RAW SEQUENCE LISTING

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235      Gly Ser Thr Cys Val Leu Ala Gly Met Ala Thr His Phe Gly Glu Met
236      1             5             10             15
238      Pro Glu Gln
241 (2) INFORMATION FOR SEQ ID NO: 6:
242      (i) SEQUENCE CHARACTERISTICS:
243          (A) LENGTH: 6 amino acids
244          (B) TYPE: amino acid
245          (C) STRANDEDNESS: single
246          (D) TOPOLOGY: linear
247      (ii) MOLECULE TYPE: peptide
248      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
249      Asn Glu Glu Gly Trp Lys
250      1             5
251 (2) INFORMATION FOR SEQ ID NO: 7:
252      (i) SEQUENCE CHARACTERISTICS:
253          (A) LENGTH: 9 amino acids
254          (B) TYPE: amino acid
255          (C) STRANDEDNESS: single
256          (D) TOPOLOGY: linear
257      (ii) MOLECULE TYPE: peptide
258      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
259      Ala Glu His Ser Pro Thr Cys Met Val
260      1             5
261 (2) INFORMATION FOR SEQ ID NO: 8:
262      (i) SEQUENCE CHARACTERISTICS:
263          (A) LENGTH: 11 amino acids
264          (B) TYPE: amino acid
265          (C) STRANDEDNESS: single
266          (D) TOPOLOGY: linear
267      (ii) MOLECULE TYPE: peptide
268      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
269      Ile Leu Asn Asn Gln Glu Gly Trp Lys Lys Glu
270      1             5             10
271 (2) INFORMATION FOR SEQ ID NO: 9:
272      (i) SEQUENCE CHARACTERISTICS:
273          (A) LENGTH: 25 base pairs
274          (B) TYPE: nucleic acid
275          (C) STRANDEDNESS: single
276          (D) TOPOLOGY: linear
277      (ii) MOLECULE TYPE: other nucleic acid
278      (A) DESCRIPTION: cDNA - "cDNA"
279      (ix) FEATURE:
280          (A) NAME KEY: modified_base
281          (B) LOCATION: cpos-of(3, 12, 15, 18)
282          (D) OTHER INFORMATION: /mod_base: OTHER
283      /note: "N = (A or C or G or T/U) or (unknown or other)"
284      (ix) FEATURE:
285          (A) NAME KEY: modified_base
286          (B) LOCATION: 6

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Output Set: N:\CRF4\03142003\I612894.raw

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316         (D) OTHER INFORMATION: /mod_base= OTHER
317 /note= "R = A or G"
318     (ix) FEATURE:
319         (A) NAME/KEY: modified_base
320         (B) LOCATION: (re-of(9, 21))
321         (D) OTHER INFORMATION: /mod_base= OTHER
322 /note= "S = C or T"
323     (xi) SEQUENCE DEFINITION: SEQ ID NO: 9:
324 GCGGARGCAYG GNC NACNTO YATNS
325 (2) INFORMATION FOR SEQ ID NO: 10:
326     (i) SEQUENCE CHARACTERISTICS:
327         (A) LENGTH: 25 base pairs
328         (B) TYPE: nucleic acid
329         (C) STRANDEDNESS: single
330         (D) TOPOLOGY: linear
331     (ii) MOLECULE TYPE: other nucleic acid
332         (A) DESCRIPTION: /desc= "DNA"
333     (ix) FEATURE:
334         (A) NAME/KEY: modified_base
335         (B) LOCATION: (re-of(3, 17))
336         (D) OTHER INFORMATION: /mod_base= OTHER
337 /note= "R = A or G"
338     (ix) FEATURE:
339         (A) NAME/KEY: modified_base
340         (B) LOCATION: (re-of(8, 11, 14, 23))
341         (D) OTHER INFORMATION: /mod_base= OTHER
342 /note= "N = (A or C or G or T/U) or (unknown or other)"
343     (ix) FEATURE:
344         (A) NAME/KEY: modified_base
345         (B) LOCATION: 18
346         (D) OTHER INFORMATION: /mod_base= OTHER
347 /note= "Y = C or T/U"
348     (xi) SEQUENCE DEFINITION: SEQ ID NO: 10:
349 CCATRCANG" NGGCGGCTCY TCHG
350 (2) INFORMATION FOR SEQ ID NO: 11:
351     (i) SEQUENCE CHARACTERISTICS:
352         (A) LENGTH: 17 base pairs
353         (B) TYPE: nucleic acid
354         (C) STRANDEDNESS: single
355         (D) TOPOLOGY: linear
356     (ii) MOLECULE TYPE: other nucleic acid
357         (A) DESCRIPTION: /desc= "DNA"
358     (ix) FEATURE:
359         (A) NAME/KEY: modified_base
360         (B) LOCATION: 5
361         (D) OTHER INFORMATION: /mod base= OTHER
362 /note= "Y = C or T/U"
363     (ix) FEATURE:
364         (A) NAME/KEY: modified base

```

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/612,894

DATE: 03/14/2003

TIME: 08:05:21

Input Set : N:\Crf3\RULE60\09612894.RAW.txt

Output Set: N:\CRF4\03142003\I612894.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:35 M:238 W: Alpha Fields not Ordered, Reordered [(C) CLASSIFICATION:] of (1)(vi)